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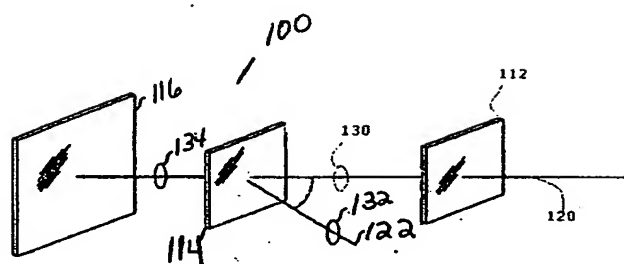


Figure 1

**PRIOR ART**

# HOLOGRAPHIC STORAGE LENSES

Jan Hoogland et al.

Serial No: NEW

495812003510

Sheet 2 of 14

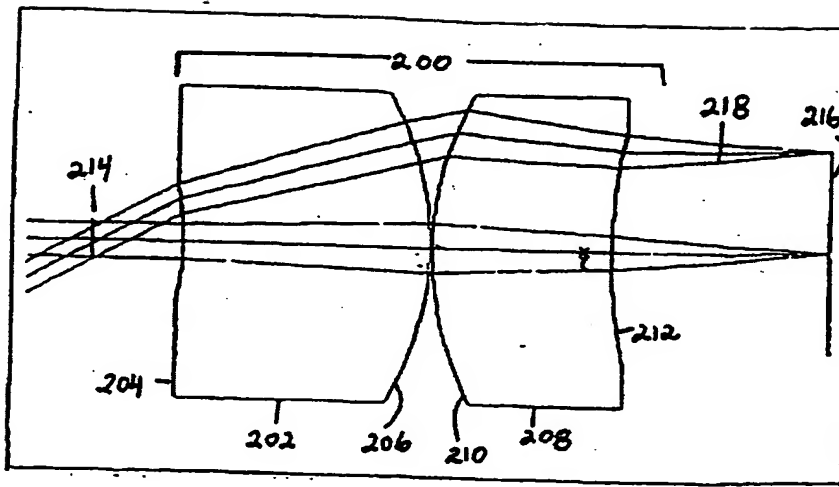


FIG. 2

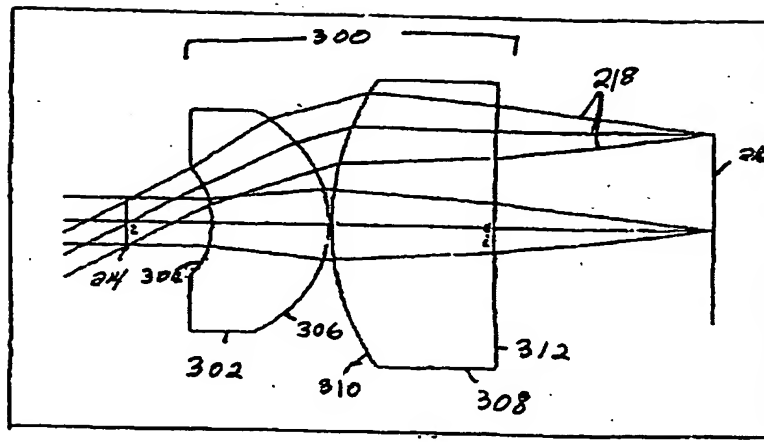


FIG. 3

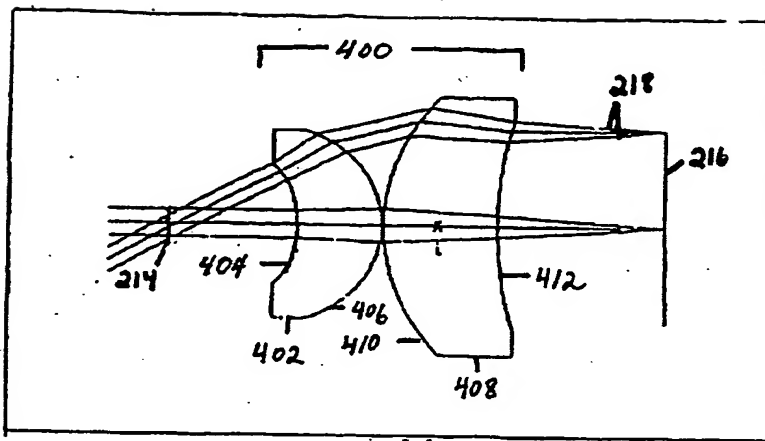


FIG. 4

# HOLOGRAPHIC STORAGE LENSES

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495812003510

Sheet 5 of 14

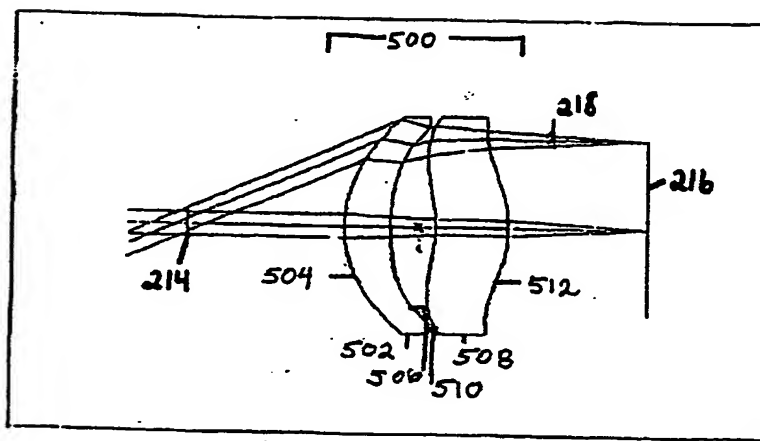


FIG. 5

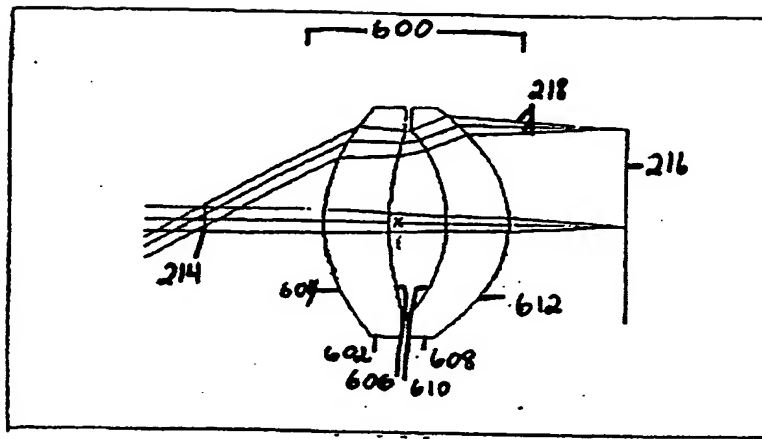


FIG. 6

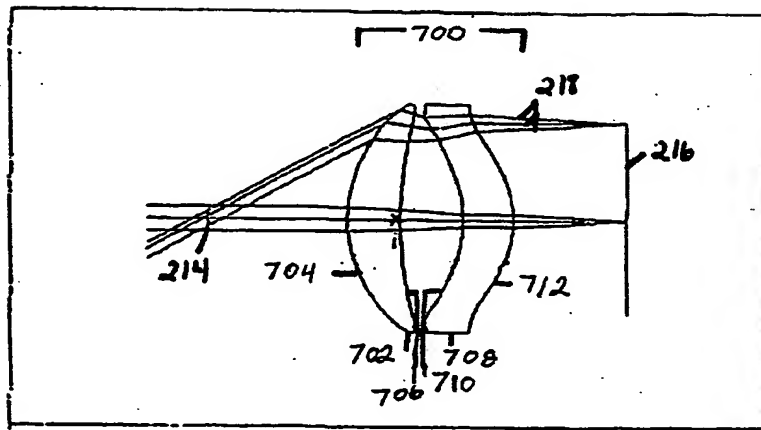


FIG. 7



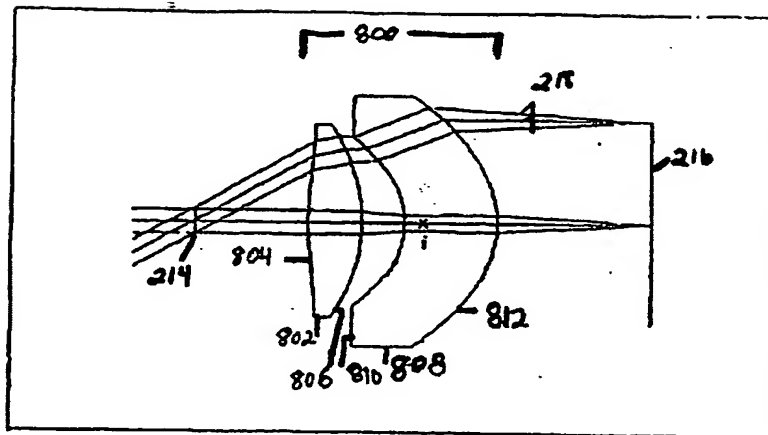


FIG. 8

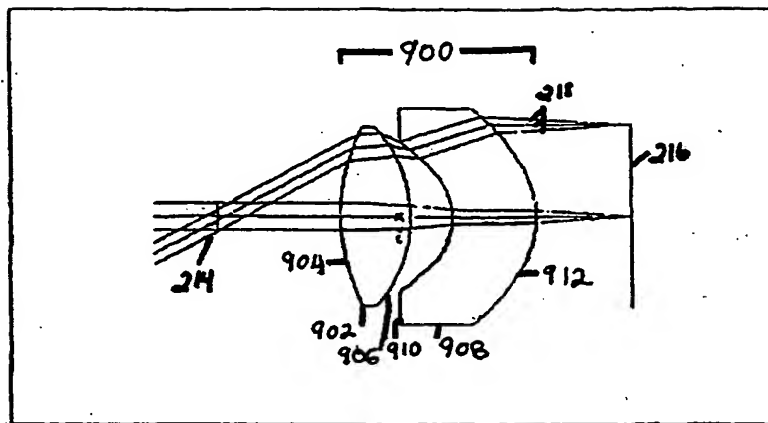


FIG. 9

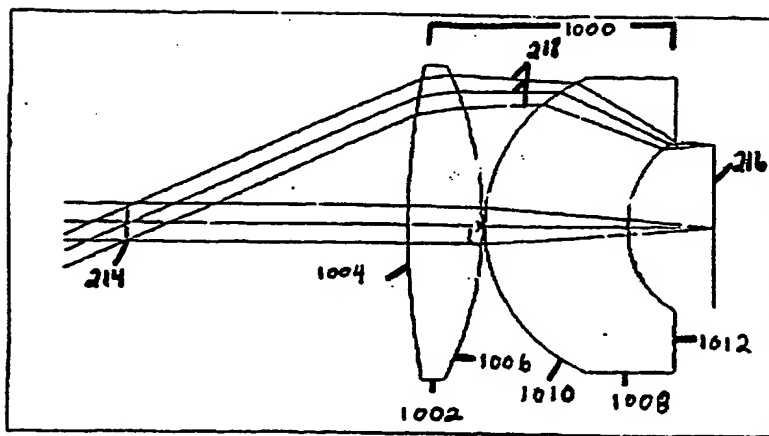


FIG. 10

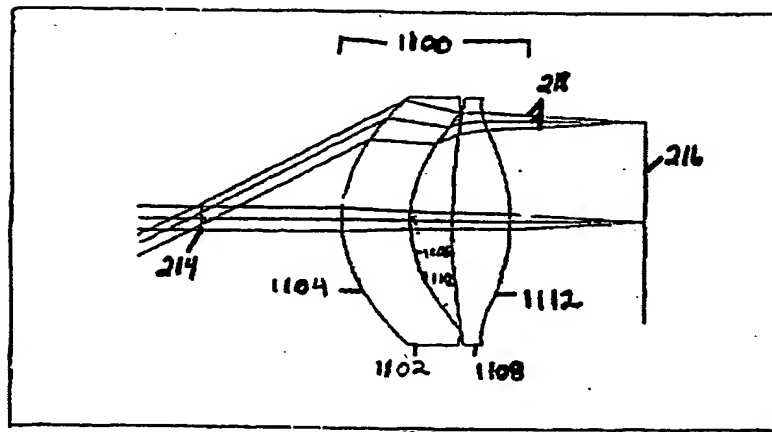


FIG. 11

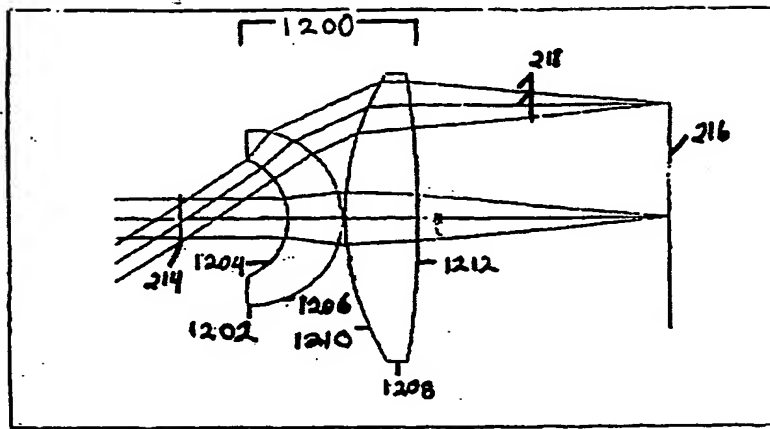


FIG. 12

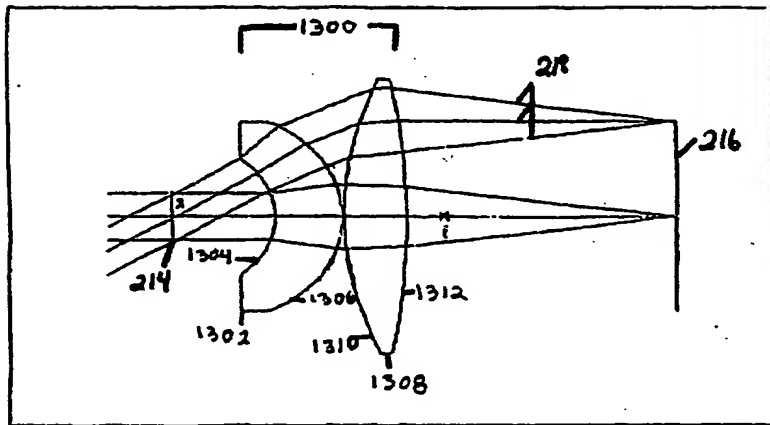


FIG. 13

Lens Figure No.	Pupil Distance (distance from lens unit to pupil in mm)	Axial Thickness of Lens Unit (in mm)	Back focal length (distance from lens unit to focal plane in mm)	Pupil location to focal plane (in mm)	Power of First Element	Power of Second Element	Field of View	Sum of the Absolute Values of Curvatures (in $\text{mm}^{-1}$ )	Sum of the Value of the Curvatures (in $\text{mm}^{-1}$ )	Petzval Sum	Pupil Aberration on Axis Pupil Radius (%)
2	40	183	98	321	.00294	.00458	60	.0229	.0016	-.0009	16
3	41	132	105	278	.00160	.00562	60	.0430	.0014	-.0006	9
4	60	96	80	236	.00491	.00370	60	.0512	.0087	-.0032	26
5	74	79	66	219	.00875	.00567	50	.0525	.0117	-.0054	36
6	70	87	55	199	.00830	.00646	60	.0510	.0129	-.0059	22
7	68	79	52	230	.00962	.00434	60	.0552	.0123	-.0057	11
8	56	89	73	218	.01274	.00317	60	.0595	.0095	-.0044	28
9	60	92	44	196	.01671	-.00219	60	.0757	.0091	-.0040	17
10	132	103	40	275	.00585	.00133	52	.0346	.0028	-.0013	1
11	66	79	62	207	.00342	.01000	60	.0432	.0124	-.0057	28
12	52	62	118	232	.00053	.00711	70	.0595	.0024	-.0011	22
13	50	62	127	239	-.00043	.00754	60	.0558	.0017	-.0008	11

Figure 14